

# Sarbajit Paul

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Performance of Urban Water-Pipeline Energy Harvester System Considering Electromagnetic-Mechanical Design. IEEE Transactions on Energy Conversion, 2022, 37, 389-402.	5.2	1
2	Influence of Structural and Physical Parameters on Working Harmonic of Flux-Modulated Linear Actuator for Energy Storage System Fire Hazard Detection Robot. IEEE Transactions on Energy Conversion, 2022, 37, 1715-1725.	5.2	2
3	Computationally Efficient Stator AC Winding Loss Analysis Model for Traction Motors Used in High-Speed Railway Electric Multiple Unit. IEEE Access, 2022, 10, 28725-28738.	4.2	5
4	Model-based design of variable speed non-salient pole permanent magnet synchronous generator for urban water pipeline energy harvester. International Journal of Electrical Power and Energy Systems, 2021, 125, 106402.	5.5	5
5	Nonlinear modeling and performance testing of high-power electromagnetic energy harvesting system for self-powering transmission line vibration deicing robot. Mechanical Systems and Signal Processing, 2021, 151, 107369.	8.0	13
6	Performance of Permanent Magnet Synchronous Generator for Urban Water Pipeline Energy Harvester Considering Slotting and Load Effect on Radial Force Characteristic. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	6
7	Fast model-based design of high performance permanent magnet machine for next generation electric propulsion for urban aerial vehicle application. CES Transactions on Electrical Machines and Systems, 2021, 5, 143-151.	3.5	8
8	Development of Coursework on Studying Fugitive Dust From Construction Site Using Optical-Type Dust Sensor. IEEE Sensors Journal, 2021, 21, 17318-17326.	4.7	2
9	Practical Consideration and Testing of Superior High Force Electromechanical Actuator for Electrically Driven Lathe. Mechatronics, 2021, 79, 102664.	3.3	3
10	Design of a High-Force Electromechanical Actuator for Electrically Driven Lathe Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 9526-9535.	7.9	8
11	Novel Core Airgap Profiles Design Scheme for Winding and Thermal Loss Reduction in High-Frequency Current Transformer Sensors. IEEE Sensors Journal, 2020, 20, 892-898.	4.7	3
12	Design and comparative survey of high torque coaxial permanent magnet coupling for tidal current generator. International Journal of Electrical Power and Energy Systems, 2020, 120, 105966.	5.5	11
13	Design of novel electromagnetic energy harvester to power a deicing robot and monitoring sensors for transmission lines. Energy Conversion and Management, 2019, 197, 111868.	9.2	22
14	Comparative analysis of wave winding topologies and performance characteristics in ultra-thin printed circuit board axial-flux permanent magnet machine. IET Electric Power Applications, 2019, 13, 694-701.	1.8	11
15	Design of Linear Magnetic Position Sensor Used in Permanent Magnet Linear Machine With Consideration of Manufacturing Tolerances. IEEE Sensors Journal, 2019, 19, 5239-5248.	4.7	12
16	Design of a Novel Electromagnetic Energy Harvester With Dual Core for Deicing Device of Transmission Lines. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	24
17	Fast Numerical Analysis of Electric Motor Using Nonlinear Model Order Reduction. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	8
18	Parametric Design Analysis of Magnetic Sensor Based on Model Order Reduction and Reliability-Based Design Optimization. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	6

#	ARTICLE	IF	CITATIONS
19	A Novel High-Resolution Optical Encoder With Axially Stacked Coded Disk for Modular Joints: Physical Modeling and Experimental Validation. IEEE Sensors Journal, 2018, 18, 6001-6008.	4.7	17
20	Precise Estimation of Initial Pole Position for Surface Permanent Magnet Synchronous Motor Based on Modified Reference Frame Method. IEEE Transactions on Magnetics, 2017, 53, 1-9.	2.1	5
21	Design and Parametric Study of the Magnetic Sensor for Position Detection in Linear Motor Based on Nonlinear Parametric model order reduction. Sensors, 2017, 17, 1543.	3.8	6
22	Design of absolute encoder disk coding based on affine n digit N-ary gray code. , 2016, , .		10
23	A New Approach to Detect Mover Position in Linear Motors Using Magnetic Sensors. Sensors, 2015, 15, 26694-26708.	3.8	18